

ASCO 2021 REVIEW AND UPDATES

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Disclosures

- Consulting
 - AstraZeneca, BMS, Janssen, Merck, Takeda, Novartis, Genentech, Eli Lilly, Daiichi Sankyo, Turning Point
- Research Support
 - AstraZeneca, Daiichi Sankyo, Calithera, Genentech, Turning Point

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Oncogenic Mutations in NSCLC

Molecular Subtyping of Adenocarcinoma^{1,2}

■ KRAS mutation
■ EGFR mutation
■ ALK fusion
■ ROS1 fusion
■ RET fusion
■ NTRK1 fusion
■ BRAF mutation
■ MET exon 14 mutation
■ HER2 mutation
■ PIK3CA mutation
■ HRAS mutation
■ NRAS mutation
■ AKT mutation
■ MAP3K1 mutation
■ Unknown

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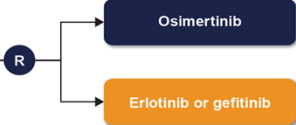
EGFR RESISTANCE STRATEGIES



FLAURA: Frontline Osimertinib¹

Phase 3 study of osimertinib vs standard-of-care EGFR TKI as first-line treatment for *EGFR* mutation-positive, locally advanced, or metastatic NSCLC

- Advanced *EGFR*-mutated NSCLC
- N = 650

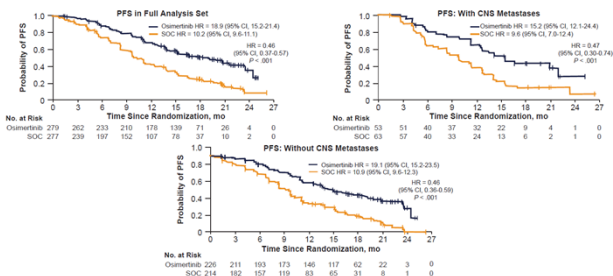


Primary endpoint: PFS
Key secondary endpoints: ORR, OS, and QoL

1. <https://clinicaltrials.gov/ct2/show/NCT02296125>



FLAURA: Osimertinib PFS¹



1. <https://clinicaltrials.gov/ct2/show/NCT02296125>





Osimertinib

Platinum Chemotherapy

Primary Mutations

Resistance Mutations

EGFR-driver
(Exon19del + L858R)

EGFR-dependent
(C797S)

MET-dependent
(MET amplification)

Other Pathways
(PIK3CA, RAS/RAF, Fusions, Cell Cycle)

Unknown
(~40-50%)

Transformations

Osimertinib resistance is complex

- Heterogenous patterns of resistance
- Co-occurrence of multiple resistance mechanisms
- NGS of ctDNA has been the most frequently used method to characterize osimertinib resistance mechanisms due to difficulties in obtaining tissue^{1,2}

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Abstract #9008

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Amivantamab (jv-e-van-tuh-mab)

- Fully human bispecific antibody that targets EGFR and MET
- Fc portion has immune cell-directing activity¹
- Demonstrated clinical activity across diverse EGFRm NSCLC^{2,4}
- Granted Breakthrough Therapy Designation for EGFRm Exon20ins NSCLC post-chemotherapy in US and China

Lazertinib (la-zer-tin-ib)

- Potent 3rd-gen TKI with efficacy in activating EGFR mutations, T790M, and CNS disease³
- Low rate of EGFR-related toxicity such as rash and diarrhea³
- Low cardiovascular safety risk³
- Safety profile that supports combination with other anti-EGFR molecules

Amivantamab MOA

Inhibition of Ligand Binding

Immune Cell-directing Activity

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CHRYSLIS Phase 1 Study Design: Combination Cohort (NCT02609776)

Key Objectives

- Establish RP2CD
- Safety and efficacy at RP2CD

Key Eligibility Criteria

- Metastatic/unresectable NSCLC
- Measurable disease (expansion cohort)
- EGFR Exon19del or L858R mutation

Biomarker Analysis^a

- NGS of pretreatment tumor biopsy and ctDNA collected prospectively
- IHC for EGFR/MET expression

Dose Escalation

Expansion Cohort

Biomarker Analysis

1050/1400 mg
amivantamab +
240 mg lazertinib

700/1050 mg
amivantamab +
240 mg lazertinib

RP2CD
Amivantamab
1050 mg (+80 kg)
1400 mg (≥80 kg)
Intravenous dosing
c1 QW, c2+ Q2W
+
240 mg lazertinib
Oral daily dosing

Osimertinib-
relapsed,
chemotherapy-
naïve
EGFR Exon19del
or L858R
(N=45)

NGS
Tumor (n=29)
ctDNA (n=44)

IHC
(n=20)

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Demographics and Baseline Disease Characteristics

	Total (N=45)		Total (N=45)
Median age, years (range)	65 (39–85)	Previously reported brain metastases, n (%)	13 (29)
Male / Female, n (%)	20 (44) / 25 (56)	Median prior lines, n (range)	2 (1–4)
Race, n (%)		Prior 1 st or 2 nd -gen TKI, n (%)	33 (73)
Asian	19 (42)	Prior 3 rd -gen TKI, n (%)	45 (100)
White	20 (44)	EGFR primary mutation, n (%)	
Black	2 (4)	Exon 19 deletion	30 (67)
Not reported / multiple	4 (1)	Exon 21 L858R	14 (31)
Smoking history		Unknown*	1 (2)
Non-smoker	20 (44)		
Smoker	25 (56)		

*Based on local testing; central testing identified Exon 19 deletion

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Durable Responses Observed with Amivantamab + Lazertinib with Manageable Safety

Investigator-assessed Response (N=45)

mPFS, months	11.0 months (range, 7.0–15.0)
mDOR, months	5.6 months (range, 0.5–14.8)
ORR	36% (95% CI, 22–51)
mDOR, months	9.6 (95% CI, 5.3–NR)
DOR ≥6 months	69%
CBR	64% (95% CI, 49–78)
mPFS, months	4.9 (95% CI, 3.7–9.5)

- Safety profile consistent with previous experience with amivantamab + lazertinib¹
- Most common AEs were IRR (78%), rash (acneiform dermatitis, 51% + rash, 27%), and paronychia (49%)
 - Majority were grade 1–2
- Treatment-related: grade ≥3 AE (16%), discontinuations (4%), dose reductions (18%)

19 Apr 2021 clinical trial. Four patients did not have confirmatory disease assessments and were not included in this set. *See Also Abstract 3033 (Oral #0006).
AE, adverse event; CBR, confirmed best response rate; CCI, CYP19A1 inhibitor; CR, complete response; ECR, efficacy-related events; IRR, investigator-reported response; mDOR, median duration of response; mPFS, median follow-up; mPFS, median progression-free survival; NE, not evaluable; NR, not reached; ORR, overall response rate; PFS, progression-free survival; PR, partial response; SD, stable disease; SLE, rash of target lesion dermatitis; SLE, unknown

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Response Among Patients with Identified EGF/MET-based Resistance

- 17 of 45 patients were identified with either EGFR/MET-based resistance by NGS* (ctDNA/tissue)
- ORR in this subgroup was 47%, mDOR was 10.4 months, CBR was 82%, and mPFS was 6.7 months

Resistance*

Resistance*	Alterations*
EGFR-based	C797S (n=7) L792H (n=1) Amp (n=3) L718X (n=3) G724S (n=2)
MET-based	Amp (n=5) METex14 (n=1)
Additional	PIK3CA E542K (n=2) CONE1 Amp (n=1) PIK3CA Amp (n=1) CDDP Amp (n=1) CDK4 (n=1)

Additional Alterations

- 1 RAS/RAF pathway
- 1 PIK3CA pathway
- 1 Cell Cycle
- 1 Fusion event

*Sequencing analysis used Guardant360 for ctDNA NGS and Therascreen for tissue NGS. EGFR and C797S were based on tumor NGS; other alterations were based on tumor NGS (CDDP 31) or ctDNA NGS (CDDP 15). Single nucleotide variants, insertions/deletions, and number of mutations were 17% with frequency with 200 reads. *EGFR patients had 11 deletions. Amp, amplification; CBR, confirmed best response.

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Response Among Patients without Identified EGFR/MET-based Resistance

- Among the remaining 28 patients who did not have an identified EGFR/MET-based resistance by NGS^a, the ORR was 29%, mDOR was 8.3 months, CBR was 54%, and mPFS was 4.1 months
- All 8 responders in those without identified EGFR/MET-based resistance were unknown resistance by NGS

Best % change in tumor volume

ORR=29% (8/28)

■ Unknown resistance mechanism
■ EGFR/MET-independent resistance

Additional Alterations:
1. PI3K/AKT pathway
2. mTOR pathway
3. Cell Cycle
4. Fusion event

10x tumor NGS

Resistance	Alterations ^a
EGFR/MET-independent	PIK3CA E545K (n=3) COND1 Amp (n=2) COND2 Amp (n=1) KRAS A83T (n=1) KRAS G12C (n=1) PIK3CA H1047R (n=1) PTEN S336 (n=1) PTEN M48K (n=1) SGSTM1-ALK fusion (n=1)

Not identified (n=18)

^aGenomic analyses used Guardant360 for ctDNA NGS and TheraScribe for tumor NGS. ^bTwo patients had 11 alterations. NE, not evaluable (no pathologic assessment) for 4 patients.

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Abstract #6006

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Response Among Patients with EGFR/MET Expression by IHC Staining

- 20/45 had tumor biopsy sufficient for IHC staining after tumor NGS
- 10 were IHC+ for EGFR/MET (combined EGFR+MET H score ≥400), with remainder defined as IHC-
- IHC+ patients had ORR of 90%, mDOR of 9.7 months, CBR of 100%, and mPFS of 12.5 months

Best % change in tumor volume

ORR=90% (18/20 IHC+)

ORR=10% (1/10 IHC-)

■ IHC+
■ IHC-

10 PRs

IHC, immunohistochemistry; NE, not evaluable (no pathologic assessment) for 2 patients.

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CHRYSLIS-2 Study Design: Phase 1b Expansion Cohorts (NCT04077463)

Phase 1b Expansion Cohorts: Lazertinib + Amivantamab

LAZ 240 mg + AMI 1050/1400 mg

A: EGFR Exon19del^a or L858R Post-OSI/post-platinum chemotherapy

B: EGFR Exon20ns

C: Uncommon EGFR mutations (e.g., S768I, L861Q, and G719X)

D: EGFR Exon19del or L858R Post-1st/1st line OSI + biomarker validation

Key Inclusion Criteria

Phase 1b Expansion Cohorts

A: EGFR Exon19del or L858R
• Post-osimertinib (1st/2nd line) and
• Progression on platinum-based chemotherapy as last line

B: EGFR Exon20ns
• Prior SOC platinum-based chemotherapy or alternatively, EGFR TKI or IO
• ≤3 prior lines of therapy

C: Uncommon non-EGFR20ns mutation^b
• Treatment-naïve or 1 prior 1st/2nd-line EGFR TKI as last line
• ≤2 prior lines of therapy

D: EGFR Exon19del or L858R
• Post-osimertinib (1st/2nd line) as last line
• Amenable to tumor biopsy for biomarker validation

^aIncludes metastatic EGFR TKI (gefitinib, erlotinib, afatinib, and osimertinib); N=3, 376R, L858R, G719X. ^bAfter progression on third-line systemic treatment or from initial biopsy in metastatic setting. Abb.: amivantamab; Exon20ns, exon 20 insertion; EGFR, epidermal growth factor receptor; LAZ, lazertinib; OSI, osimertinib; SOC, standard of care.

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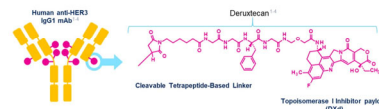
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Patritumab Deruxtecan (HER3-DXd)—Targeting HER3 May Address Multiple EGFR TKI Resistance Mechanisms

- HER3-DXd is an ADC with 3 components:¹⁴
 - A fully human anti-HER3 IgG1 mAb (patritumab), covalently linked to:
 - A topoisomerase I inhibitor payload, an exatecan derivative, via
 - A tetrapeptide-based cleavable linker
- HER3-DXd is in clinical evaluation for NSCLC, metastatic breast cancer, and colorectal cancer

HER3 is expressed in 83% of NSCLC tumors⁷⁴

HER3 alterations are not known to be a mechanism of resistance to EGFR TKI in *EGFR*m NSCLC



1. HER3 overexpression is associated with metastatic progression and decreased relapse-free survival in patients with NSCLC. Hashimoto Y, et al. *Clin Cancer Res* 2015;25:7151-7161. 2. Nakata T, et al. *Chem Pharm Bull (Tokyo)* 2015;63(10):173-185. 3. Ogilvy Y, et al. *Clin Cancer Res* 2016;22(20):5097-5108. 4. Koganezawa S, et al. *Mol Cancer Ther* 2016;15:2543-2550. 5. Hashimoto Y, et al. *Sci Rep* 2016;6:22348. 6. Ogilvy Y, et al. *Cancer Sci* 2016;107(2):1056-1065. 7. Hashimoto Y, et al. *Sci Rep* 2016;6:22348.

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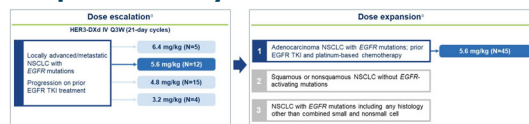
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U31402-A-U102 is a Phase 1 Dose Escalation and Dose Expansion Study in Patients With NSCLC



Recommended dose for expansion: HER3-OX^d 5.6 mg/kg IV Q3W

Data cutoff: September 24, 2020

57 patients with EGFR TKI-resistant, *EGFRm* NSCLC were treated with HER3-DXd 5.6 mg/kg in dose escalation (N=12) and dose expansion Cohort 1 (N=45)

- **Efficacy** evaluation in pooled patients with *EGFR*m NSCLC treated with HER3-DXd 5.6 mg/kg (N=57)
(Median Follow Up: 10.2 mo; range, 5.2-19.9 mo)
- **Safety** evaluation in all patients in dose escalation and dose expansion Cohort 1 (N=81)

*Patients with stable heart rate/rhythm were permitted to enroll. A heart biopsy was required prior to study entry but patients were not selected for inclusion based on measurement of HFrEF.

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Patients with EGFRm NSCLC were Heavily Pre-treated with Majority Receiving Prior Platinum-based Chemotherapy

HER2-DXd	
Patient Characteristics and Treatment History	
Age, median (range), years	5.6 mg/kg (N=57) 65 (40-80)
Female, n (%)	All Doses (N=81) 64 (40-80)
ECOG performance status 0/1, n (%)	36 (63)
Sum of diameters at baseline, n (%)	52 (64)
History of CNS metastases, n (%)	23 (40) 34 (60) 42 (47) 58 (58)
Sum of diameters at baseline, n (%)	54 (13-95)
History of CNS metastases, n (%)	51 (5-109)
Prior lines of systemic therapy, median (range) ^a	27 (47)
Prior cancer regimens	43 (93)
Prior EGFR TKI therapy, n (%)	4 (1-9)
Prior osimertinib, n (%)	4 (1-9)
Prior platinum-based chemotherapy, n (%)	57 (100)
Prior immunotherapy, n (%)	81 (100)
	49 (86)
	52 (91)
	65 (80)
	23 (40)
	28 (35)

*By blinded independent central reviewer per RECIST 1.1. †In the locally advanced or metastatic setting.

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HER3-DXd Demonstrated Durable Antitumor Activity After Failure of EGFR TKI and Platinum-based Chemotherapy (PBC)

Outcomes (BICR per RECIST 1.1)	Prior TKI ± PBC (N=57)	Prior OS, PBC (N=44)
Median Follow-up, 3.2-25.8 mo		
Confirmed ORR, % (95% CI)	39 (26-52)	39 (24-55)
Best overall response, n (%)		
CR	1 (2)	1 (2)
PR	21 (37)	16 (36)
SD, Non-CR/Non-PD	19 (33)	13 (30)
PD	9 (16)	8 (18)
Not evaluable	7 (12)	6 (14)
Disease control rate, % (95% CI)	72 (59-83)	68 (52-81)
Time to response, median (range), mo	2.6 (1.2-5.4)	2.7 (1.2-5.4)
Duration of response, median (95% CI), mo	6.9 (3.1-NE)	7.0 (3.1-NE)
PFS, median (95% CI), mo	8.2 (4.4-8.3)	8.2 (4.0-NE)

The subgroup of patients treated with prior osimertinib (OS) and platinum-based chemotherapy demonstrated similar efficacy to the overall efficacy population

OS, best overall response rate; CR, complete response; NE, not evaluable; ORR, objective response rate; OS, osimertinib; PBC, platinum-based chemotherapy; PFS, progression-free survival; PD, partial response; SD, stable disease.

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HER3-DXd Demonstrated Activity in Patients With Diverse Mechanisms of EGFR TKI Resistance

OS, best overall response rate; CR, complete response; NE, not evaluable; PFS, progression-free survival; PD, partial response; SD, stable disease; T790M, tumor with T790M mutation.

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Clinical Responses Were Observed Across the Spectrum of Baseline HER3 Expression

- HER3 was expressed in all evaluable patients' (43/57) tumors
- HER3 expression was not correlated with time since last EGFR TKI dose

Responses were observed in patients with a wide range of baseline HER3 membrane H-scores

OS, best overall response rate; CR, complete response; NE, not evaluable; PFS, progression-free survival; PD, partial response; SD, stable disease.

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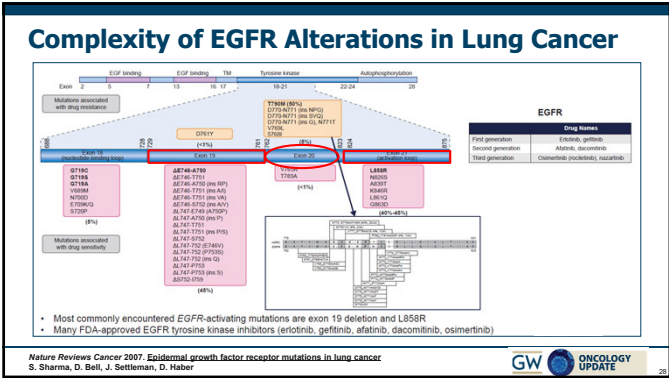
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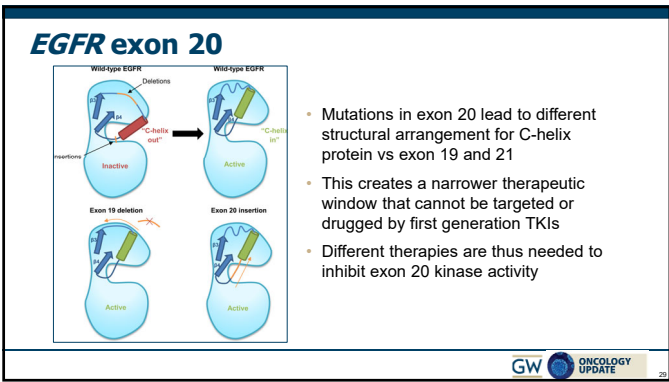
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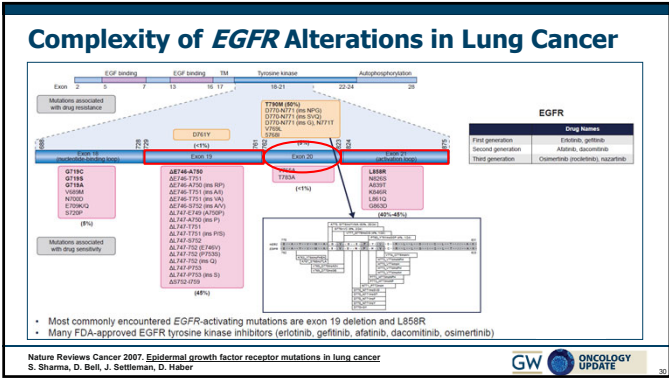
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EGFR exon 20

- Mutations in exon 20 lead to different structural arrangement for C-helix protein vs exon 19 and 21
- This creates a narrower therapeutic window that cannot be targeted or drugged by first generation TKIs
- Different therapies are thus needed to inhibit exon 20 kinase activity

Targeting EGFR Exon 20 Insertions in Lung Cancer

EGFR exon 20 insertions comprise 4%-10% of EGFR-mutant NSCLC and are generally refractory to first/second-generation EGFR TKIs, but other agents are showing clinical activity and tolerability in this setting

- **Osimertinib**
 - Phase 2 EA5162 trial (NCT03191149)¹
- **Pozotinib**
 - Phase 2 trial (NCT03066206)²
 - Phase 2 ZENITH20 trial did not meet primary endpoint in EGFR exon 20 cohort³
- **Mobocertinib (TAK-788)**
 - Phase 1/2 trial "EXCLAIM" extension cohort (NCT02716116)⁴
- Breakthrough therapy designation based on ORR and long-term benefit seen in a phase 1/2 study in patients with exon20ins disease⁵
- **Amivantamab (JNJ-61186372)**
 - Phase 1 study (NCT02609776) demonstrated robust and durable antitumor activity in patients with exon20ins disease with a manageable safety profile⁶
 - **FDA approved 5/21/21 for EXON 20 after platinum chemo

1. Piotrowska Z et al. ASCO 2020. Abstract 9513. 2. Robichaux JP et al. Nat Med. 2018;24:638-646. 3. Le X et al. ASCO 2020. Abstract 9514. 4. Riley G et al. WJG 2018. P1-21-127. 5. Janne PA et al. J Clin Oncol. 2019;37(suppl 15):9607. 6. Park K et al. ASCO 2020. Abstract 9512.

Amivantamab in Post-platinum EGFR Exon 20 Insertion Mutant Non-small Cell Lung Cancer

Joshua K. Salazar¹, Catherine A. Shu², Keunchil Park³, Natasha B. Leigh⁴, Paul Mitchell⁵, Sang-Wi Kim⁶, Jong-Seok Lee⁷, Dong-Wan Kim⁸, Santiago Viteri⁹, Alexander I. Spira¹⁰, Ji-Youn Han¹¹, José Trigo¹², Chee Khoo Lee¹³, Ki Hyong Lee¹⁴, Nicolas Girard¹⁵, Tsung-Ying Yang¹⁶, Kouichi Goto¹⁷, Rachel E. Sordani¹⁸, James Chai-Han Yang¹⁹, Joshua C. Cutler²⁰, John Xie²¹, Amy Roshak²², Meena Thappan²³, Roland E. Knoblauch²⁴, Byoung Chul Choi²⁵

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CHRYSLIS Study Design: Post-platinum Exon20ins Population

NCT02609776

Key Objectives

- Dose escalation: Establish RP2D
- Dose expansion: Assess safety and efficacy at RP2D

Key Eligibility Criteria for Post-platinum Population

- Metastatic/unresectable NSCLC
- EGFR Exon20ins mutation
- Progressed on platinum-based chemotherapy

Dose Escalation Cohorts

140-1750 mg

Advanced NSCLC

RP2D

1050 mg (<80 kg)

1400 mg (≥80 kg)

C1 QW, C2+ Q2W

Dose Expansion Cohort D

EGFR Exon20ins

Post-platinum Exon20ins Treated at RP2D (N=114; Safety Population)

Post-platinum Exon20ins with ≥3 Disease Assessments at Clinical Cut-off* (n=81; Efficacy Population)

Efficacy End Points

Primary

- Overall response rate per RECIST v1.1

Key Secondary

- Clinical benefit rate
- Duration of response
- Progression-free survival
- Overall survival

*Post-platinum patients treated at the RP2D and had ≥3 scheduled disease assessments or discontinued, progressed, or died prior to the 3rd postbaseline assessment at the time of clinical cut-off (June 8, 2020). By October 8, 2020, all responders in the efficacy population had ≥6 months of follow-up from first disease assessment.

C, cycle; QW, every other week; Q2W, weekly; RECIST, Response Evaluation Criteria in Solid Tumors; RP2D, recommended phase 2 dose

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ONCOLOGY UPDATE

Amivantamab: Efficacy by BICR

Amivantamab: Efficacy by BICR

Helical Region (n=1)

ORR=100%, CBR=100%

Near Loop (n=54)

ORR=41%, CBR=70%

Far Loop (n=6)

ORR=25%, CBR=75%

Not Detected by ctDNA (n=18)

ORR=39%, CBR=83%

25 distinct Exon20ins variants identified by NGS of ctDNA (Guardant360®) from 63 evaluable patient samples

Sabari JK, Shu CA, Park K, et al. Presented at: IASLC 2020 World Conference on Lung Cancer Singapore. January 28-31, 2021. Abstract OAB4.04

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ONCOLOGY UPDATE

Amivantamab: Efficacy by BICR

BICR-assessed Response	Efficacy Population (n=81)
Overall response rate	40% (95% CI, 29–51)
Median duration of response	11.1 months (95% CI, 6.9–NR)
Best response, n (%)	
Complete response	3 (4)
Partial response	29 (36)
Stable disease	39 (48)
Progressive disease	8 (10)
Not evaluable	1 (1)
Clinical benefit rate*	74% (95% CI, 63–83)

Median follow-up: 9.7 months (range, 1.1–29.3)

Overall

Age, years

<65

≥65

Sex

Male

Female

Race

Asian

Non-Asian

Baseline ECOG PS

0

≥1

Prior Lines of Therapy

1

≥2

History of Smoking

Yes

No

History of Brain Metastases

Yes

No

ORR (%)

n/N

ORR (95% CI)

32/81 40% (29, 51)

21/48 44% (30, 59)

11/53 33% (19, 52)

15/53 46% (28, 64)

17/48 35% (22, 51)

17/40 43% (27, 59)

16/52 44% (28, 62)

14/26 54% (33, 73)

15/55 33% (21, 47)

10/51 32% (17, 51)

7/24 29% (13, 51)

13/58 34% (20, 51)

19/43 44% (29, 60)

7/18 39% (17, 64)

25/62 40% (26, 53)

Sabari JK, Shu CA, Park K, et al. Presented at: IASLC 2020 World Conference on Lung Cancer Singapore. January 28-31, 2021. Abstract OAB4.04

GW

ONCOLOGY UPDATE

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DZD9008 Is A Potent and Selective EGFR Exon20 Insertion Inhibitor

WT: wild-type; Exon20ins: Exon20 insertion; 772_Shale, 772_Phe, 772_Y, 772_NPS, 772_G, 763_PQEA, 768_GAV, 770_SRD, 772_NPH, 768_ASV, 772_DNP, 769_GSV, 773_AH, 768_SPL represent different subtypes of EGFR Exon20 insertion mutations; BID: twice daily; PDX: patient-derived xenograft; **** P < 0.0001 by two-way ANOVA.

- DZD9008 shows good selectivity between EGFR Exon20ins and wild-type EGFR in the *in vitro* cell assay.
- DZD9008 demonstrates profound anti-tumor activity in PDX models carrying EGFR Exon20 insertion mutations.

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Phase 1 Study Design Overview

Key inclusion criteria

- Previously treated advanced NSCLC with
 - EGFR or HER2 mutation (escalation and food effect cohorts)
 - EGFR or HER2 Exon20 insertion (expansion cohorts)
- Adequate organ system functions
- Patients with stable brain metastasis allowed

Objectives

- Primary objectives: Safety and tolerability
- Secondary objectives:
 - Pharmacokinetics
 - Anti-tumor activity*: ORR, DOR, DCR, PFS

WU-H0404 (Olaparib) gene transfer; WU-H0404, being conducted in the United States, Australia, South Korea and Taiwan; and WU-H0404 (Genadigital identifier: CTR02180297, being conducted in China have the similar study design except that WU-H0404 does not have food effect cohort.

*Assessed by investigators according to RECIST1.1, RECIST Response Evaluation Criteria in Solid Tumors; ORR: Objective response rate; DOR: Duration of response; DCR: Disease control rate; PFS: Progression free survival.

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Demographic and Baseline Characteristics of Patients Treated with DZD9008

Characteristics	Safety set (N = 102)	Efficacy set (N = 96)
Median age, y (range)	50 (21 - 85)	50 (22 - 85)
Female, n (%)	57 (56)	33 (58.9)
Race (White/Asian), n (%)	17 (16.7)/85 (83.3)	8 (14.3)/48 (85.7)
ECOG (0-1), n (%)	38 (37.3)/64 (62.7)	18 (32.1)/38 (67.9)
Prior systemic anti-cancer treatment		
Lines, Median (range)	3 (1-10)	2 (1-10)
Chemotherapy, n (%)	93 (91.2)	52 (92.9)
EGFR TKIs, n (%)	47 (46.1)	25 (44.6)
Platinoids	3 (2.9)	2 (3.8)
TAK-788	1 (1.0)	0 (0.0)
Immunotherapy, n (%)	35 (34.3)	17 (30.4)
Atezolizumab, n (%)	5 (4.9)	4 (7.1)
Others, n (%)	25 (24.5)	11 (19.6)
Baseline brain metastasis, n (%)	44 (43.1)	23 (41.1)
Prior brain radiotherapy	27 (51.4)	14 (60.9)

*ECOG: Eastern Cooperative Oncology Group

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Common Drug-Related AEs

Drug related adverse event by preferred term (n, %)	All grade	CTCAE grade ≥ 3
Diarrhea	55 (53.9)	5 (4.9)
Rash	41 (40.2)	0 (0.0)
Nausea	35 (34.3)	0 (0.0)
Anemia	29 (28.4)	4 (3.9)
Paronychia	28 (27.5)	2 (2.0)
Decreased appetite	27 (26.5)	2 (2.0)
Vomiting	26 (25.5)	1 (1.0)
Blood creatinine phosphokinase increased	23 (22.5)	7 (6.9)
Mouth ulceration	16 (14.7)	0 (0.0)
Blood creatinine increased	15 (14.7)	0 (0.0)
Amylase increased	14 (13.7)	1 (1.0)
Lipase increased	14 (13.7)	2 (2.0)
Aspartate aminotransferase increased	13 (12.7)	2 (2.0)

- * Only AEs with frequency > 10% were listed.
- * AEs were assessed as drug-related by investigators.
- * Data were summarized across all dose levels from 50 mg to 400 mg.
- * Drug-related AEs were consistent with other EGFR TKIs, mainly diarrhea and skin rash. Majorities of the AEs were grade 1 or 2.

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Antitumor Activity of DZD9008 in EGFR Exon20 Insertion

Mutation subtypes	ORR*	DCR
V769_D770insASV (N = 20)	8 (40.0)	19 (95.0)
D770_N771insSVD (N = 10)	6 (60.0)	9 (90.0)
Other subtypes* (N = 18)	7 (38.9)	15 (83.3)
Unknown subtypes (N = 5)	0 (0.0)	4 (80.0)
All (N = 53)	21 (39.6)	46 (86.8)

Data was analyzed at dose levels with observed response (≥ 100 mg):

- * Confirmed ORR
- * Other subtypes of EGFR Exon20 insertion include: V774_C775insRL, D770insdGV, V769_D770insASV, H773_V774insRL, H773_V774insdRL, D770_N771insdG, H773_V774insdRPH and N771_P772insdGN

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Antitumor Activity of DZD9008 in EGFR Exon20 Insertion

	50 mg QD (N = 3)	100 mg QD (N = 2)	200 mg QD (N = 11)	300 mg QD (N = 31)	400 mg QD (N = 9)	All (N = 56)
Best response, n (%)						
Partial response (unconfirmed)	0 (0.0)	1 (50.0)	5 (45.5)	15 (48.4)	2 (22.2)	23 (41.1)
Partial response (confirmed)	0 (0.0)	1 (50.0)	5 (45.5)	13 (41.9)	2 (22.2)	21 (37.5)
Stable disease	2 (66.7)	1 (50.0)	4 (36.4)	15 (48.4)	5 (55.6)	27 (48.2)
Progressive disease	1 (33.3)	0 (0.0)	2 (18.2)	3 (9.7)	2 (22.2)	8 (14.3)
Confirmed ORR, n (%)	0 (0.0)	1 (50.0)	5 (45.5)	13 (41.9)	2 (22.2)	21 (37.5)
DCR, n (%)	2 (66.7)	2 (100.0)	9 (81.8)	28 (90.3)	7 (77.8)	48 (85.7)

Tumor assessment was performed by investigators according to RECIST 1.1; QD, once daily

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Baseline Characteristics

Baseline Characteristics	Sotorasib 960mg, QD N = 126
Median age – years (range)	63.5 (37–80)
ECOG performance status – n (%)	
0	38 (30.2)
1	88 (69.8)
Smoking history – n (%)	
Never	6 (4.8)
Current or former	117 (92.9)
Prior lines of systemic anticancer therapy – n (%)	
1	54 (42.9)
2	44 (34.9)
3	28 (22.2)
Types of prior anticancer therapy – n (%)	
Platinum-based chemotherapy	113 (89.7)
PD-1 or PD-L1 inhibitors	115 (91.3)
Platinum-based chemotherapy and PD-1/PD-L1 inhibitors	102 (81.0)

ECOG: Eastern Cooperative Oncology Group; QD: once a day; PD-1: programmed cell death protein 1; PD-L1: programmed death-ligand 1.

Most patients were previously treated with both platinum-based chemotherapy and immunotherapy

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Tumor Response

	Sotorasib 960mg, QD N = 124 ^a
Objective Response Rate – % (95% CI)	37.1 (28.6, 46.2)
Best Overall Response – n (%)	
Complete response	4 (3.2)
Partial response	42 (33.9)
Stable disease	54 (43.5)
Progressive disease	20 (16.1)
Not evaluable or missing scan ^b	4 (3.2)
Disease Control Rate – % (95% CI)	80.6 (72.6, 87.2)
Duration of Response – months	
Median (95% CI)	11.1 (6.9, NE)
Time to Response – months	
Median (min, max)	1.35 (1.2, 10.1)

^a according to central review; 2 patients did not have measurable lesions at baseline per RECIST 1.1 and were excluded from response assessment; 3: 2 patients stopped treatment without postbaseline scans and were assessed as "missing scans"; 2 patients had 1 postbaseline scan and were assessed as "not evaluable" by central review.

^b CI: confidence interval; NE: not evaluable; QD: once a day; RECIST: Response Evaluation Criteria in Solid Tumors.

Over 80% of patients achieved disease control with sotorasib, including 4 complete responses and 42 partial responses

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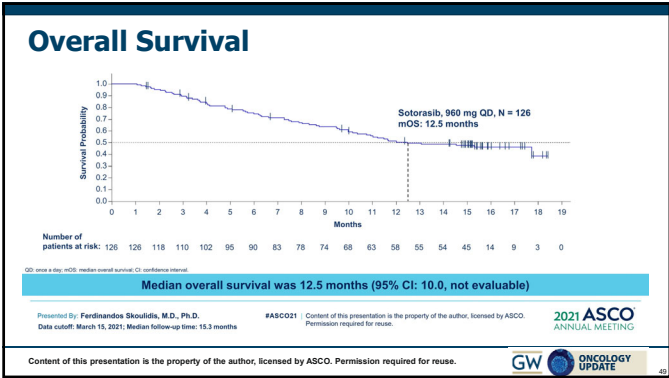
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Progression-Free Survival

Median progression-free survival was 6.8 months (95% CI: 5.1, 8.2)

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Safety

Treatment-Related Adverse Events (TRAEs) Occurring in ≥ 5%	Any Grade N = 126 n (%)	Grade 3 N = 126 n (%)
Any TRAEs	88 (69.8)	25 (19.8)
Diarrhea	40 (31.7)	5 (4.0)
Nausea	24 (19.0)	0
ALT increase	19 (15.1)	8 (6.3)
AST increase	19 (15.1)	7 (5.6)
Fatigue	14 (11.1)	0
Vomiting	10 (7.9)	0
Blood alkaline phosphatase increase	9 (7.1)	1 (0.8)
Maculopapular rash	7 (5.6)	0

One patient (0.8%) reported grade 4 TRAEs (pneumonitis and dyspnea)

ALT: serum aminotransferase; AST: aspartate aminotransferase; LFT: liver function test

Treatment-related adverse events were mostly grade 1 or 2 and were generally manageable

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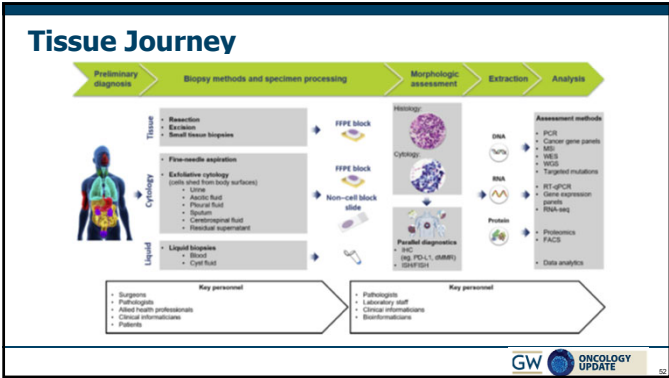
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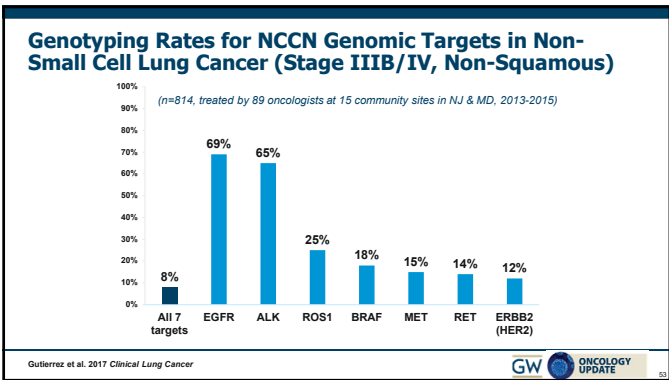
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TESTING

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BIOMARKER TISSUE JOURNEY AMONG PATIENTS WITH UNTREATED METASTATIC NON-SMALL CELL LUNG CANCER IN THE US ONCOLOGY NETWORK COMMUNITY PRACTICES

Nicholas J. Robert, MD¹, Esmond Nwokedi, PhD¹, Janet L. Espirito, PharmD¹, Liwei Chen, PhD¹, Mander Karhade, PhD, MD, MPH¹, Makenzi Evangelist, MD^{2,4}, Alexander Spira, MD, PhD^{3,4}, FACP, Marcus Neubauer, MD¹, Susan Bullock, RN, MPH¹, Robert L. Coleman, MD¹ (on behalf of the NY/LUNG Consortium)* collaborators: The US Oncology Network and sponsors

¹OncoRx, Irving, TX, USA ²New York Oncology Hematology, Albany, NY, USA ³Virginia Cancer Specialists, Fairfax, VA, USA ⁴US Oncology Research, The Woodlands, TX, USA ⁵The US Oncology Network, The Woodlands, TX, USA

June 4-8, 2021

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Methods

- Retrospective, observational chart review
- Patients with mNSCLC initiating first-line (1L) systemic therapy between April 1, 2018 and March 31, 2020
- Data from practices within The US Oncology Network of community oncology practices that utilize a similar electronic health record

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On behalf of the MYLUNG Consortium™

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Patient Characteristics

	Overall N=3474	Nonsquamous N=2820
Age at mNSCLC, years		
Median(Min, Max)	69 (23,90+)	69 (24,90+)
Gender, %		
Female	51.1	53.9
Male	48.9	46.1
Race, %		
White	65.3	64.4
Black Or African American	8.3	8.3
Other	5.8	6.0
Not documented	20.7	21.2
Practice region, %		
South	46.4	45.5
West	35.3	36.2
Midwest	11.6	12.1
Northeast	6.6	6.3

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Biomarker testing rates over time for overall study population

Biomarker	Apr 18 - Sep 18	Oct 18 - Mar 19	Apr 19 - Sep 19	Oct 19 - Mar 20
ALK	77	78	74	74
BRAF	54	62	69	62
EGFR	77	77	75	75
ROS1	74	75	70	71
PD-L1	81	85	85	85
Any	91	91	90	92
All 5	44	63	50	62

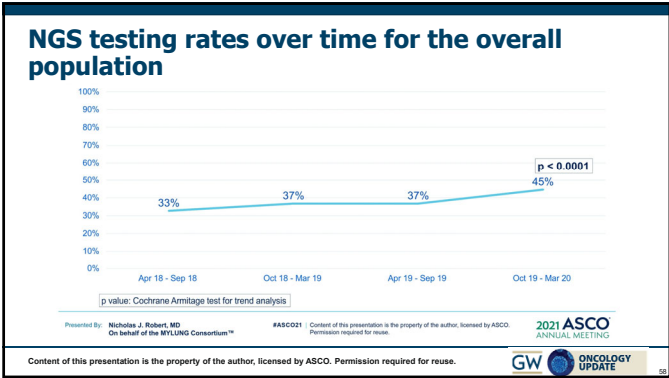
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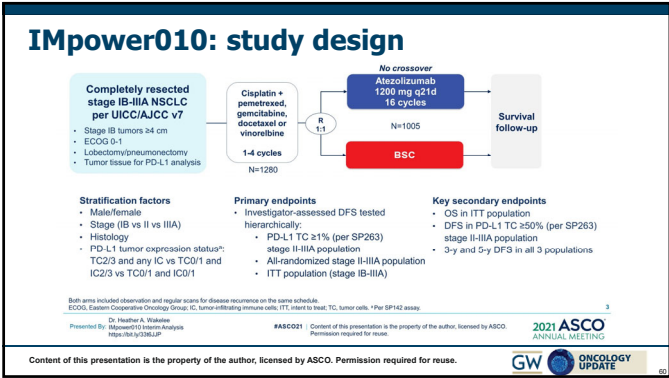
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ADJUVANT TRIALS

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IMpower010: statistical analysis plan

DFS in PD-L1 TC ≥1% stage II-IIIa population
2-sided α=0.05

If positive:

DFS in all-randomized stage II-IIIa population
2-sided α=0.05

If positive:

DFS in ITT population (stage IB-IIIa)
2-sided α=0.05

If positive:

OS in ITT population
2-sided α=0.05

- The primary DFS endpoint was tested hierarchically in 3 primary analysis populations

Dr. Heather A. Wakelee
Presented By: IMpower010 Interim Analysis
<https://doi.org/10.1200/JCO.2020.38.1501>

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IMpower010: DFS in the PD-L1 TC ≥1%^a stage II-IIIa population (primary endpoint)

	Atezolizumab (n=248)	BSC (n=238)
Median DFS (95% CI), mo	NE (36.1, NE)	35.3 (29.0, NE)
Stratified HR (95% CI)	0.66 (0.50, 0.88)	
P value ^a	0.004	

Median follow-up: 32.8 mo (range, 0.1-57.5)

Dr. Heather A. Wakelee
Presented By: IMpower010 Interim Analysis
<https://doi.org/10.1200/JCO.2020.38.1501>

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IMpower010: DFS in the all-randomized stage II-IIIa population (primary endpoint)

	Atezolizumab (n=442)	BSC (n=440)
Median DFS (95% CI), mo	42.3 (36.0, NE)	35.3 (29.4, 40.4)
Stratified HR (95% CI)	0.79 (0.64, 0.96)	
P value ^a	0.02 ^a	

Median follow-up: 32.2 mo (range, 0-57.5)

Dr. Heather A. Wakelee
Presented By: IMpower010 Interim Analysis
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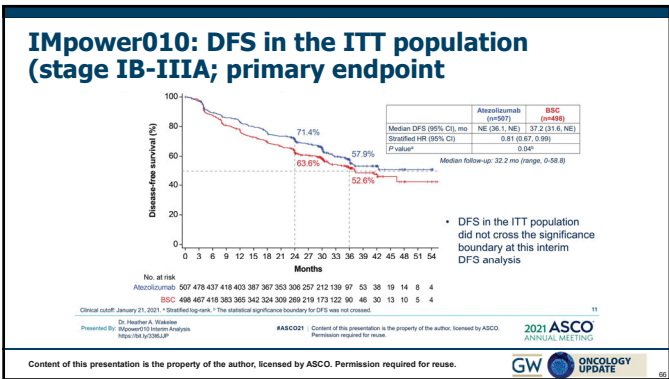
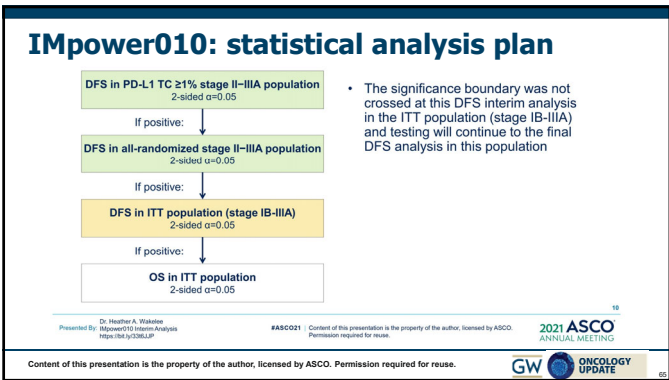
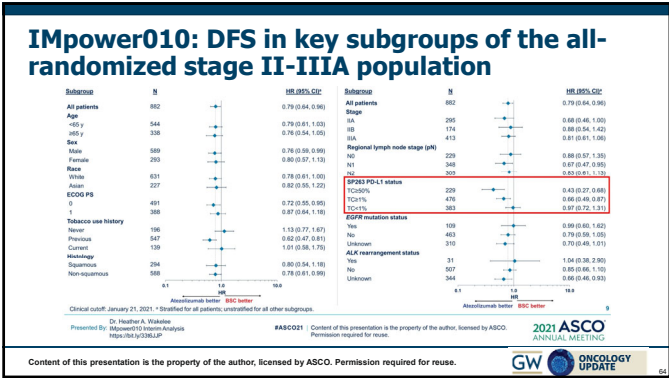
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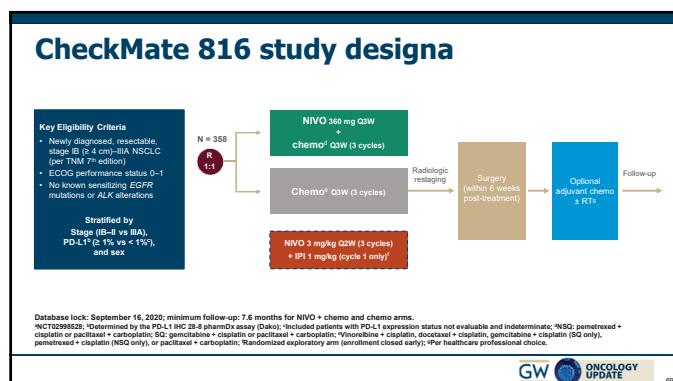
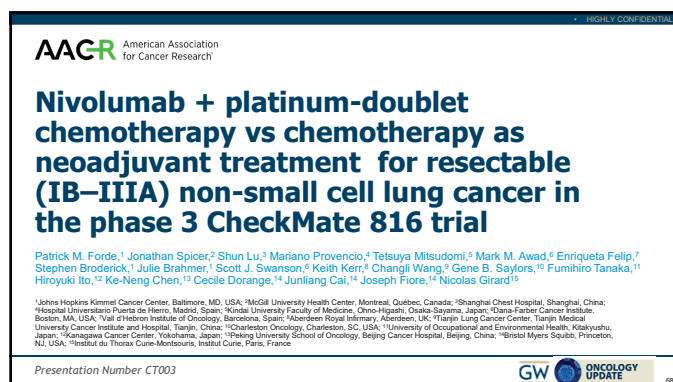
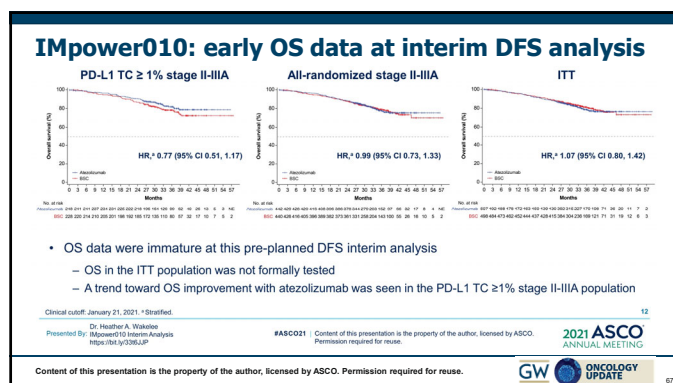
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Methods

Pathological assessment (primary and secondary endpoints)

- Performed via a blinded independent pathological review (BIPR) committee based on immune-related pathological response criteria described previously¹
 - pCR: 0% residual viable tumor cells in **both** primary tumor (lung) and sampled lymph nodes^a
 - MPR: ≤10% residual viable tumor cells in **both** primary tumor (lung) and sampled lymph nodes^a

a Lymph nodes from at least 5 stations were recommended to be sampled.

1. Costrell TE, et al. Ann Oncol 2018;29:1883–1886.

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Baseline characteristics

	NIVO + chemo (n = 179)	Chemo (n = 179)
Age, median (range), years	64 (41–82)	65 (34–84)
Female, %	28	29
Region, %		
North America	23	28
Europe	23	14
Asia	48	51
Stage, %		
IB–IIA	36	35
IIIA	63	64
Histology, %		
Squamous	49	53
Non-squamous	51	47
Smoking status, %		
Current / former	89	88
Never	11	11

	NIVO + chemo (n = 179)	Chemo (n = 179)
Tumor PD-L1 expression, % ^a		
Not evaluable	7	7
< 1%	44	43
≥ 1%	50	50
1–49%	28	26
≥ 50%	21	24
TMB, % ^a		
Not evaluable / not reported ^d	51	50
< 12.3 mut/Mb	27	30
≥ 12.3 mut/Mb	22	21

Baseline characteristics in the NIVO + IPI (exploratory) arm were generally similar to the NIVO + chemo and chemo arms

^aNot of the world: 7% of patients in each of the NIVO + chemo and chemo arms; ^bStages by CRP, with TNM 7th edition used for classification; 1 patient in each of the NIVO + chemo and chemo arms had stage IV disease; ^cStage IB, IIA, IIB disease: 6%, 17%, and 14% of patients in the NIVO + chemo arm, and 4%, 18%, and 13% in the chemo arm, respectively; ^dSmoking status unknown; 1 patient in chemo arm; ^ePercentages are based on ITT; ^fTMB was not analyzed for patients in China, and these patients are included in the “not reported” category.

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Primary endpoint: pCRa rate with neoadjuvant NIVO + chemo vs chemo

Primary endpoint: ITT (ypT0N0)^b

OR = 13.94 (95% CI, 3.49–55.75)^c
P < 0.0001

Difference^a
21.6%

24.0%^c

2.2%^c

NIVO + chemo
43/179

Chemo
4/179

Patients with resection^a (ypT0N0)

39.5%

3.2%

NIVO + chemo
43/141

Chemo
4/126

Primary tumor only in ITT (ypT0)

25.7%

2.8%

NIVO + chemo
46/179

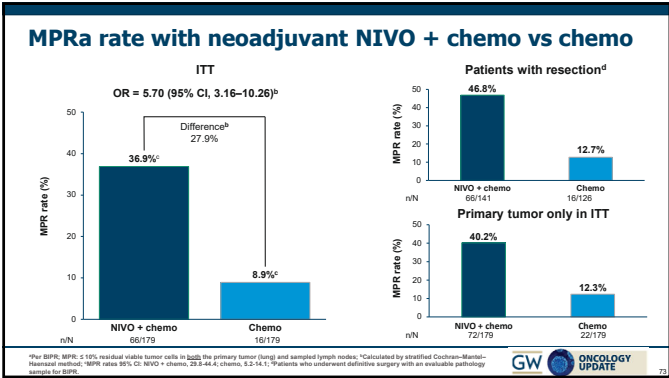
Chemo
5/179

^aFor BIPR, pCR: 0% residual viable tumor cells in both primary tumor (lung) and sampled lymph nodes; ^bITT principle: patients who did not undergo surgery counted as non-resected for primary endpoint; ^cCalculated by unstratified Cochran-Mantel-Haenszel method; ^dpCR rates: NIVO: 43/179 (24.0%), chemo: 4/179 (2.2%); ^ePatients who underwent definitive surgery with an evaluable pathology sample for BIPR.

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Summary

- Genotyping is critical
 - Consider both tissue and plasma
- The list of genotypes that is actionable is growing
 - EGFR EXON 20
 - KRAS G12C
 - HER2?
- Neoadjuvant/Adjuvant immunotherapy will most likely improve the outcomes for patients with earlier stage disease

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Thank You

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